



Reliability Laboratory

TEST REPORT

Report No.: HC60208B/2016

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Date: January 18, 2017

ALLTEK MARINE ELECTRONICS CORP.
14F-2, NO.237, SEC. 1, DATONG RD., XIZHI DISTRICT,
NEW TAIPEI CITY, TAIWAN

The following merchandise was submitted and identified by the vendor as:

Product Description: AIS Class B Transponder

Style/ Item No.: WideLink B600W/ No.1

Manufacturer/ Vendor: Alltek Marine Electronics Corp.

Country of Origin: Taiwan

Quantity: Total 1 piece

Testing Period: Jun. 27, 2016 to Jul. 27, 2016

Note: (Client's declaration) The setup of equipment under test with
WideLink B600W are shown in appendix I

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Required: (According to client's test specification, please see following sheets in detail.)

1. Salt Mist Test

Test Results : -PLEASE SEE ATTACHED SHEETS-

*HC60208A/2016, dated on January 17, 2017, is hereby canceled and replaced by HC60208B/2016.

Signed for and on behalf of
SGS TAIWAN Ltd.

Winson Tseng
Asst. Manager

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1. Salt Mist Test:

Test Equipment:

Name	Brand	Model	Serial No.
Salt Spray Test Chamber	YI-SANG	ST-BS-S	EC10092914
Programmable Temperature & Humidity Chamber	KSON	THS-D6TS-150+LN2	A0495

Lab Environmental Conditions:Ambient temperature: $(25 \pm 3) ^\circ\text{C}$ Ambient humidity: $(55 \pm 20) \% \text{RH}$ Test Method/ Specification:

Test method: IEC60945 Edition 4.0: 2008, 8.12

Sample Condition: Non-OperatingTest procedure: The Salt Mist test includes two test items. The test sequence is shown as below.

Salt Mist Test	
Test Sequence	Test Action/ Item
1	Salt mist Test, exposing for 2 hours.
2	Temperature & Humidity Storage Test, exposing for 168 hours.
Above test sequences shall be performed for 4 cycles.	

(1) Salt Spray test:Salt solution: 5 wt.% NaCl solutionpH of solution: 6.5-7.2Temperature: $(25 \pm 2) ^\circ\text{C}$ Quantity of Mist : 1.0 ~2.0 ml/ 80 cm²/ hourExposing duration: 2 hours/ cycle

- Remove the specimen(s) from Salt Spray Test Chamber to Temperature & Humidity Storage Test immediately.

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Test Method/ Specification--Continued:**(2)Temperature & Humidity Storage Test:**

Temperature: 40 °C
Humidity: 95 %RH
Exposing duration: 168 hours/ cycle

- Examine the appearance of specimen(s) by visual check and perform functional check after salt mist test.
- Functional check: Turn on the power of specimen then examine whether the GPS 3D fixed and AIS transmitting/receiving functions of specimen(s) could work normally or not.

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Specimen:Style/ Item No.: WideLink B600W/ No.1Quantity: Total 1 pieceTest Result:

Check Item Style/ Item No.	Appearance Check (visual check)	Functional Check
	WideLink B600W/ No.1 No visible damage	Normal

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Appendix I:

Setup Of Equipment Under Test (By client)

No.	Equipment	Model No.	Brand	Cable
1	GPS Antenna	ANT-21 (AGGRESSOR-21) (AGGRESSOR-111-C) (AMEC P/N:M-ANT-C1283-570001-A)	AMEC	Shielded, 10m
2	VHF Antenna	ANT-11(TENTA-11) (AMEC P/N:AMEC-ANT-MFB-1200V)	AMEC	Shielded, 10m
3	Power Supply	62012P-80-60	Chroma	Unshielded, 1.8m
4	NMEA 0183 Cable	N/A	AMEC	Unshielded, 0.9m
5	NMEA 2000 Cable	N/A	AMEC	Unshielded, 0.9m
6	Mini USB to USB Cable	N/A	AMEC	Shielded, 1.8m
7	Laptop	SL410	Lenovo	N/A
8	Mini USB to USB Cable	N/A	AMEC	Shielded, 1.8m
9	AIS Transponder	CAMINO-108	AMEC	Shielded, 1.4m
10	GPS Antenna	ANT-21 (AGGRESSOR-21) (AGGRESSOR-111-C) (AMEC P/N:M-ANT-C1283-570001-A)	AMEC	Shielded, 10m
11	VHF Antenna	N/A	N/A	Shielded, 0.6m

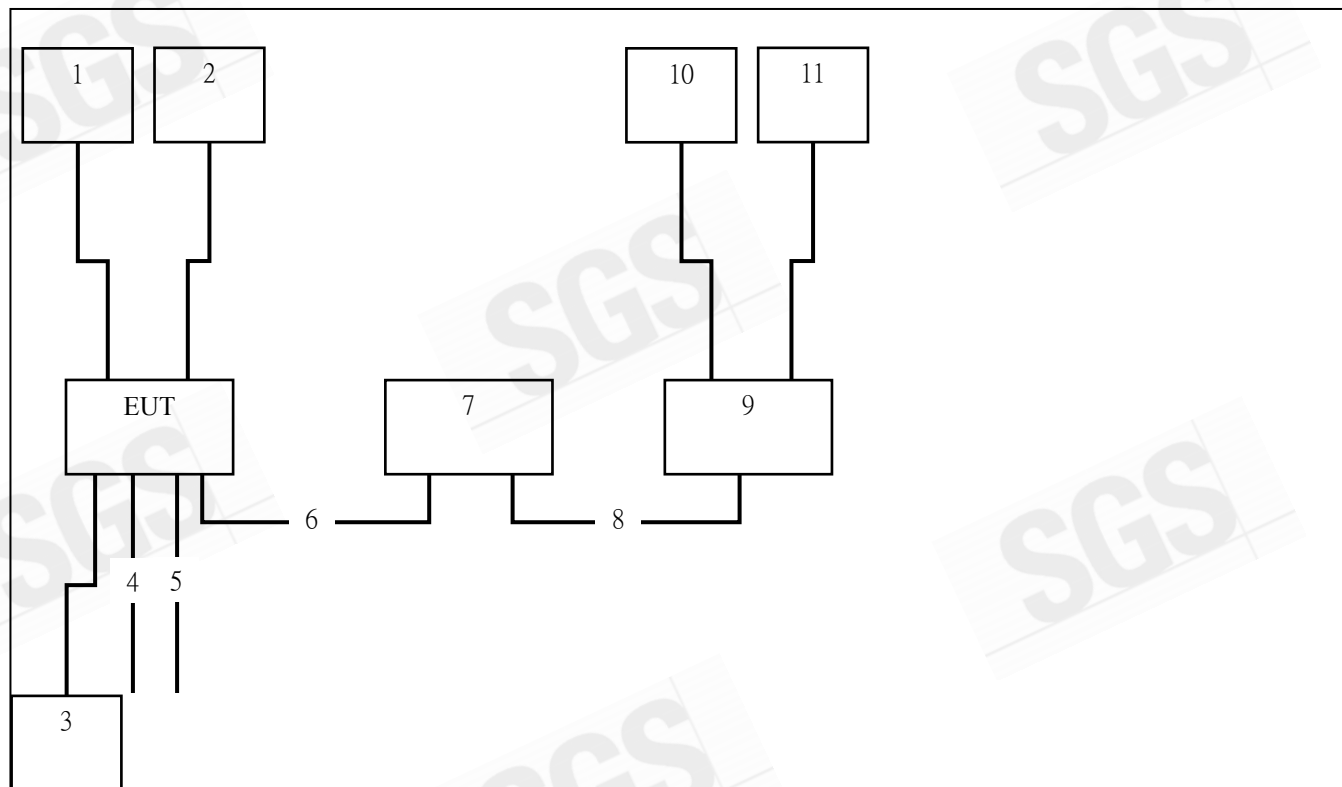
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Appendix I --Continued:



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Test Photos:



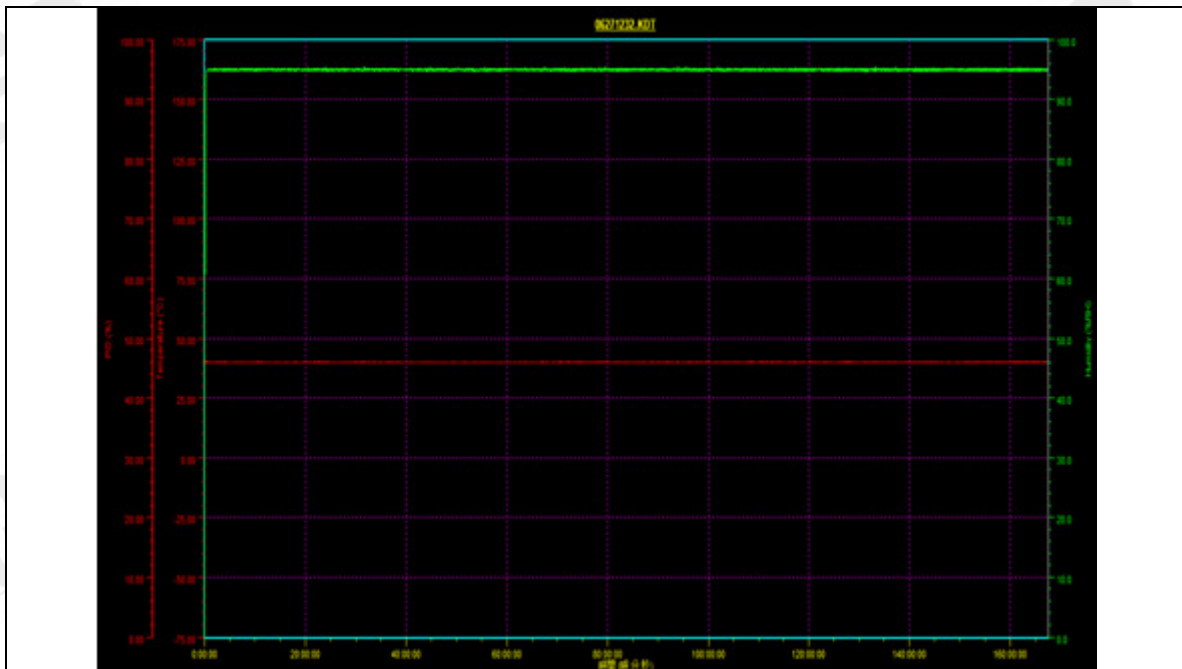
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Test Photos--Continued:



1. Temperature & Humidity Storage Test Profile --1ST cycle



2. Temperature & Humidity Storage Test Profile --2ND cycle

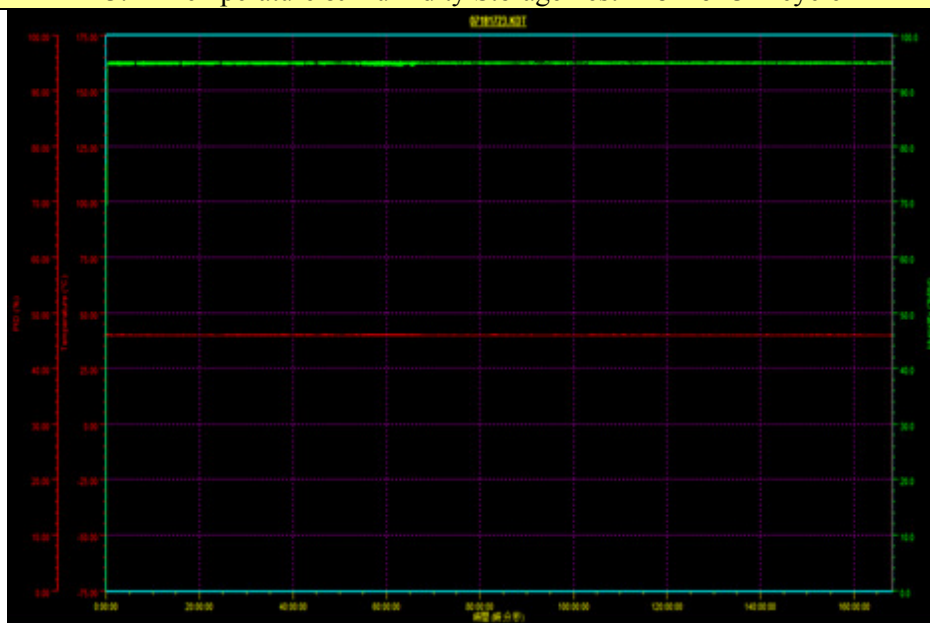
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Test Photos--Continued:

3. Temperature & Humidity Storage Test Profile--3RD cycle4. Temperature & Humidity Storage Test Profile--4TH cycle

— — — The End of Test Report — — —

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